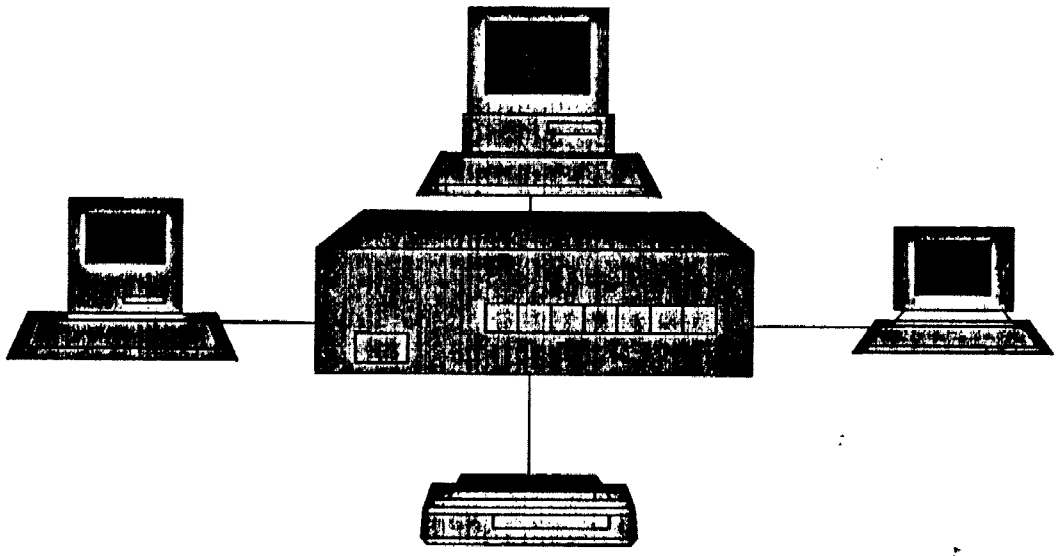
CENTER
FOR
INFORMATION MANAGEMENT



BRIEFING TO MR. ROBERTS, HAC

20 AUGUST 1992

The DoD Problem

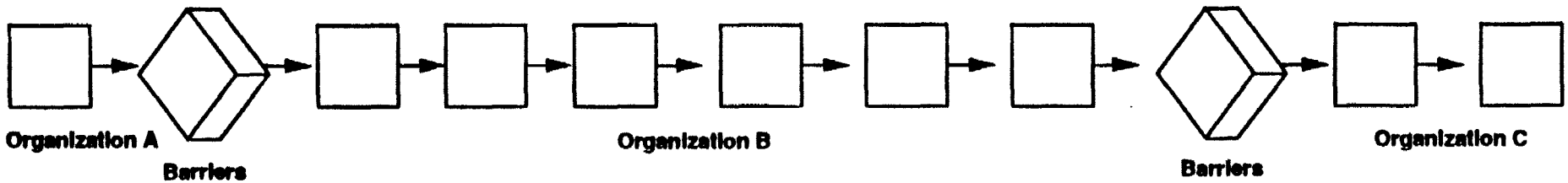
- Unstable Threat Environment
- Reduced Force Structure
- Tight Budget
- Outdated Business Methods and C3I Processes
- Obsolete/Redundant Information Systems

Corporate Information Management Approach

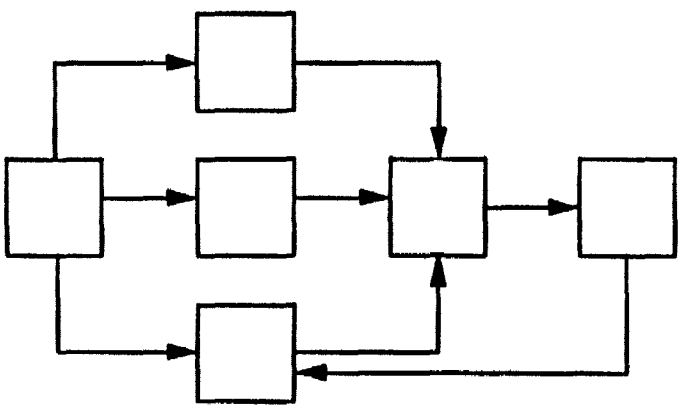
- Establish Management Process -- Centralized Policy and Decentralized Execution
- Business Process Improvement
- Information System Improvements
- Decisions Based on a "Business Case"
- Information Services Provided on a Fee-For-Service
- Emphasis on Evolving Existing Baseline

Improve Mission Practices

Current Mission Processes



Improved Mission Process



Through

- Mission Need Analysis
- Shortened Cycle Times
- Parallel Processing
- Organizational Barriers Removal
- Streamlined and Simplified Management Processes
- Increase Tooth-to-Tail Ratio
- Improved Feedback Loops

Center for Information Management Background

- Center for Information Management Activated 15 March 1991
- Center Program Goals Responsive to Direction of ASD(C3I), DoD CIM Implementation Plan, DMRD 924, and ELG Plan
- Center Chartered to Provide Information Management Technical Services to the DoD Community

Center for Information Management
DoD Culture Change

- Process First/Technology Second
- Organizational changes and impacts
  - More "Purple" support
  - More centralization of support
  - Technology must be responsive
- Center for Information Management role
  - Agent for change
  - Information technology service provider

FUNDING PROFILE

($M) as of 11 AUGUST 1992

	FY 1992*	FY 1993
Operation & Maintenance	56.5	131.9
Procurement	5.8	35.2
Research, Development, Test and Evaluation	0	3.5
TOTAL	62.3	170.6

* Funding received from DISA Appropriation and corporate IM Central Fund.

FUNDING BY PROGRAM AREA
($000)

PROGRAM AREA	FY 1992	FY 1993
Technical Integration	11,110	11,070
Information Eng Services	859	3,590
Data Administration	3,128	7,268
Information Tech Standards	2,183	3,417
Software Systems Eng	1,146	15,530
Software Reuse	9,550	11,557
Infrastructure Eng	3,715	23,765
Architecture	2,252	2,800
CIMNET	2,400	2,520
DISN	0	40,300
TMP	0	1,000
Plans and Programs	821	200
CIM Systems	144	0
GM&A	25,007	44,083
SUBTOTAL	62,315	167,100
IRMICS - RDT&E		3,470
GRAND TOTAL	62,315	170,570

Date: 20 August 1992

CONGRESSIONAL STAFF BRIEFING
CENTER FOR INFORMATION MANAGEMENT
FUNDING BY PROGRAM AREA
(000)

	FY 1992			FY 1993*		
PROGRAM AREA	O&M	Proc	Total	O&M	Proc	Total
Technical Integration	11,110		11,110	11,070		11,070
Information Eng Services	775	84	859	3,590		3,590
Data Administration	3,023	105	3,128	5,120	2,148	7,268
Information Tech Standards	2,016	167	2,183	3,417		3,417
Software Systems Eng	1,146		1,146	12,990	2,540	15,530
Software Reuse	8,700	850	9,550	8,300	3,257	11,557
Infrastructure Eng	3,715		3,715	16,265	7,500	23,765
Architecture	2,252		2,252	2,800		2,800
CIMNET	2,400		2,400	2,520		2,520
DISN	0	0	0	22,300	18,000	40,300
TMP	0		0	1,000		1,000
CIM Systems	144		144	0		0
Plans and Programs	821		821	200		200
GM&A**	20,440	4,567	25,007	42,328	1,755	44,083
SUBTOTAL	56,542	5,773	62,315	131,900	35,200	167,100
AIRMICS - RDT&E						3,470
GRAND TOTAL						170,570

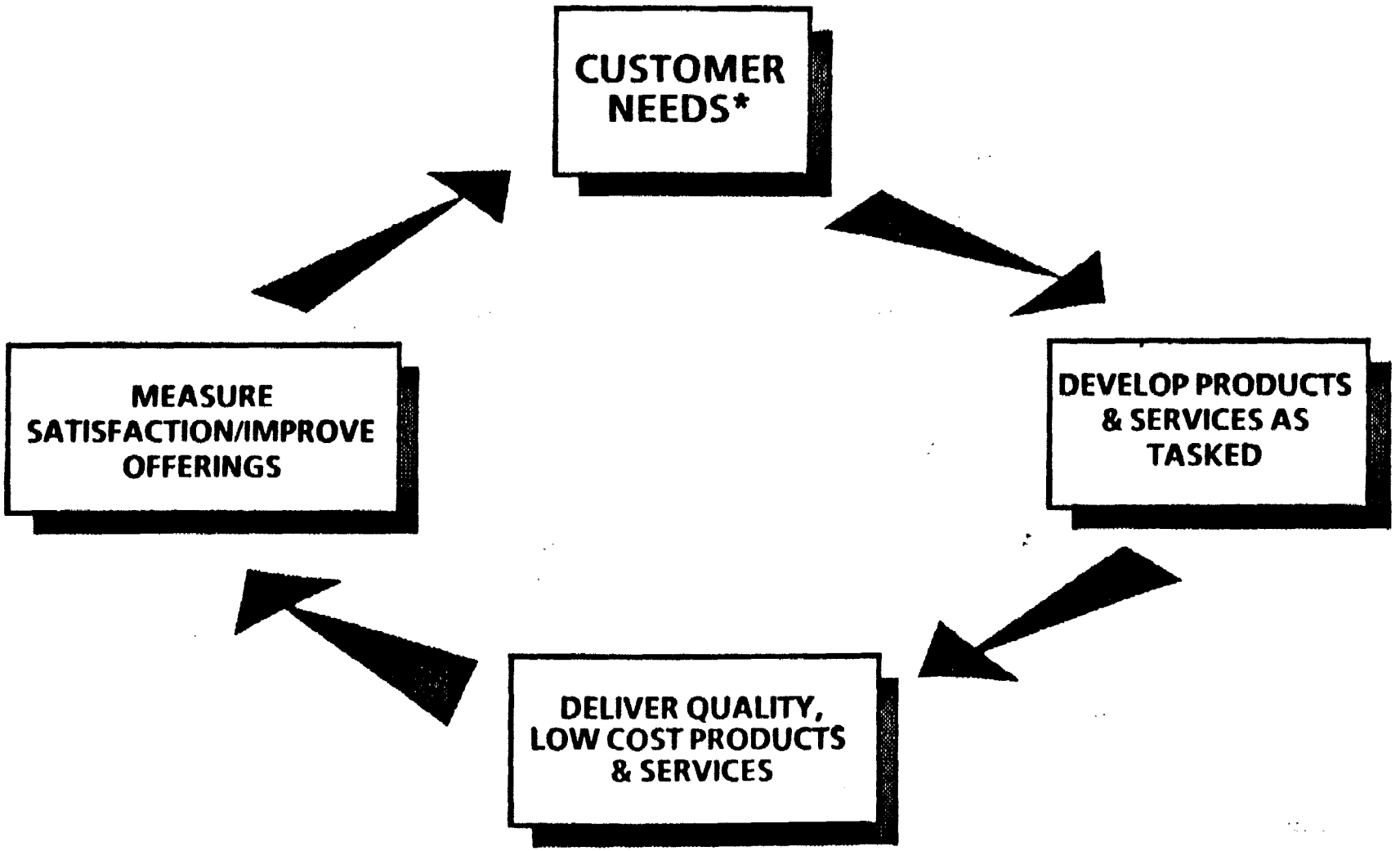
* FY 1993 President's Budget Request

** General Maintenance and Administration (GM&A) encompasses such basic operating expenses as civilian compensation, leases, travel, training etc.

BILLETS BY PROGRAM

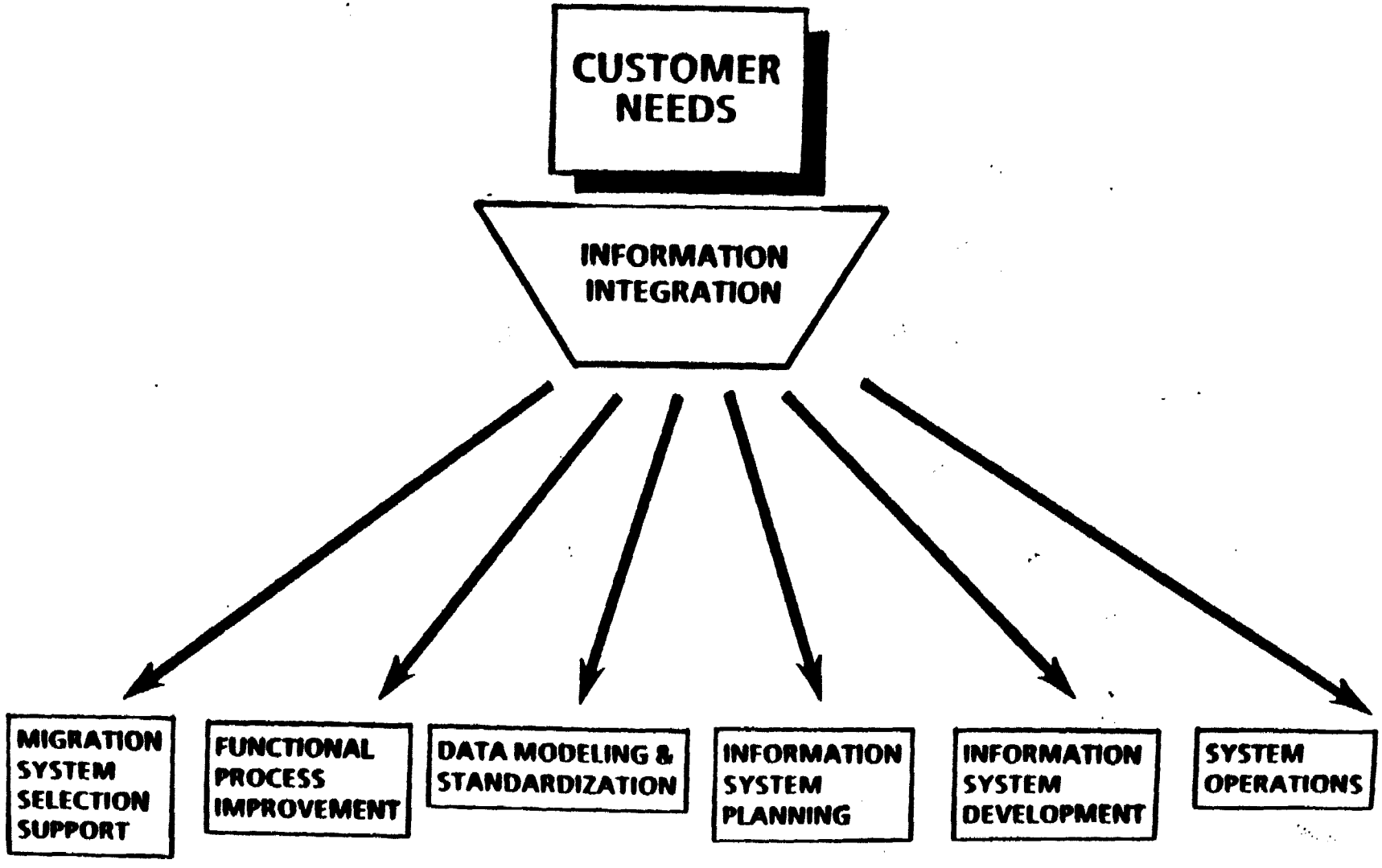
PROGRAM	FY92 AUTHORIZED	FY93 AUTHORIZED
Technical Integration	63	71
Information Engineering	15	19
Data Administration	35	47
Information Technology Standards	48	56
Software Systems Engineering	26	27
ICASE	0	40
Software Reuse	19	34
Plans and Programs	29	29
Infrastructure Engineering	32	67
Management Support	8	9
Intern Program	9	9
Functional Information Mgmt Support	88	94
DISA Support	28	34
Center Totals	400	536

Center Approach



* The Corp. IM process defines the customer's immediate need for technical tools, services and assistance.

Support to the Corporate Information Management Process

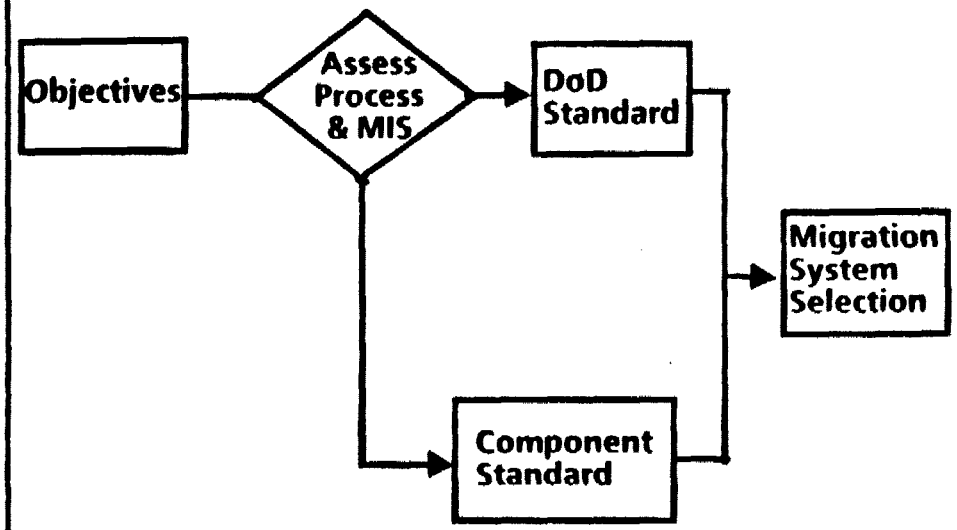


The Center's Role

		CENTER PRODUCTS AND SERVICES				
		INFORMATION ENGINEERING (IE)	TECH. INTEGRA-TION (TIM)	S/W PROCESS & REUSE (S/W)	UTILITY PLANNING & ACQUISI-TION (Util)	OPENS SYSTEM ARCHITEC-TURE & STANDARDS
CIM PROCESS	MIGRATION SYSTEMS	X	X	X	X	X
	FUNCTIONAL PROCESS IMPROVEMENT	X	X			
	DATA STANDARDIZATION	X	X			
	INFORMATION SYSTEM PLANNING	X	X	X	X	X
	INFORMATION SYSTEM DEVELOPMENT	X	X	X	X	X
	SYSTEM OPERATION		X		X	

Migration Systems

Corp. IM PROCESS



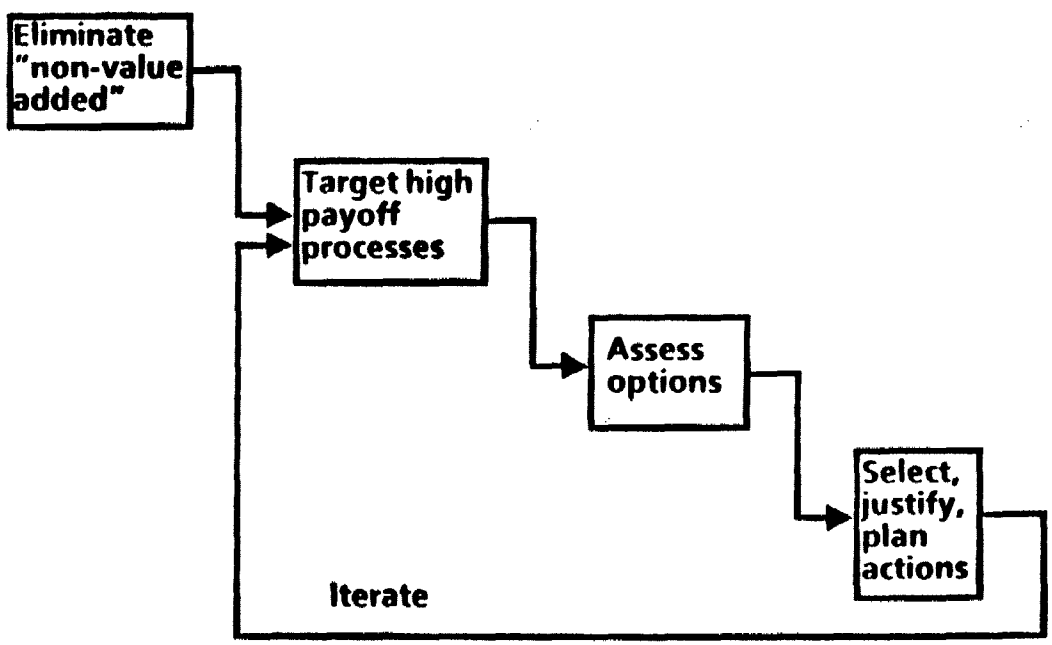
- Migration system selection
- Economic analysis basis for decisions
- Data standardization
- Open systems environment (OSE) evolution

CENTER SUPPORT

- TIM
  - baseline analysis
  - migration options & tradeoffs
  - open systems target architectures
- Functional economic analysis (FEA) services as required
- OSE
  - Architecture
  - acquisitions
  - transition engineering
- Data Standardization
  - DoD data administration
  - DoD data dictionary

Functional Process Improvement

Corp. IM PROCESS



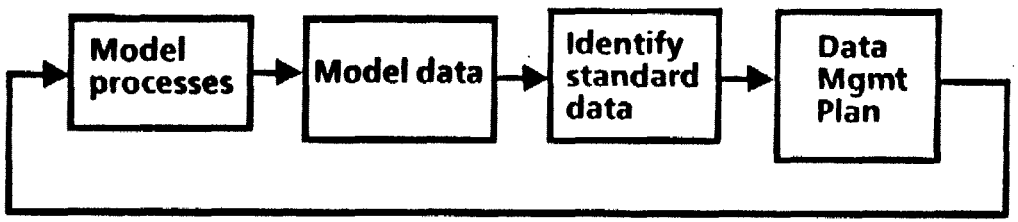
- Continuous process improvement
- Economic basis for decisions
- Functional & Standard methodology
- Evolutionary, incremental gains

CENTER SUPPORT

- IDEF tools through ICASE RFP (S/W)
- Process modeling support (IE)
- FEA technical services as required (IE)
- Technology Assessments (TIM)

Data Standardization

Corp. IM PROCESS



iterate

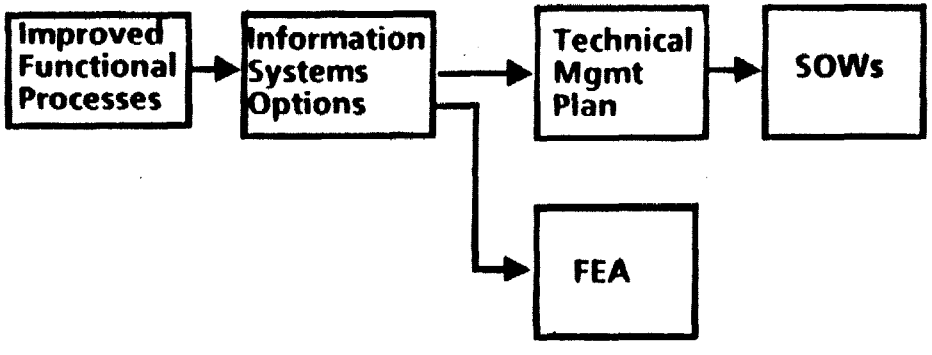
- Data models for improved processes
- Standard data leading to DoD-wide shared information

CENTER SUPPORT

- Data modeling tools through ICASE RFP
- DoD Data Administration Program
  - Functionally oriented procedures
- DoD Data Dictionary
- Expert technical assistance

Information Systems Planning

Corp. IM PROCESS



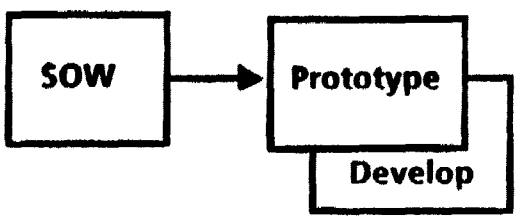
- Best information system options to support improved processes
- Economic basis for decisions
- Top level technical management plan
  - Visibility
  - Control
- SOWs for implementation

CENTER SUPPORT

- TMP guidance
- FEA assistance
- TIM support
  - Responsible for TMP
  - Conduit to Center technology
  - SOW broker
- Technology programs
  - Architectures
  - Standards

Information System Development

Corp. IM PROCESS



- Rapid, evolutionary
- Open competition
- Quality service at affordable cost
- Best technology

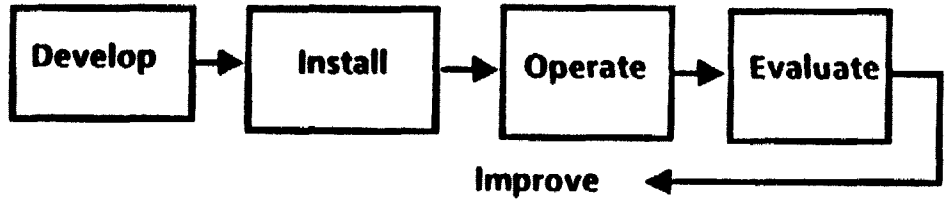
CENTER SUPPORT

- Software process improvement
  - best industry practice (S/W)
- DoD Software Reuse Program
  - compose systems from quality reusable parts (S/W)
- Shared development utility (Util)
- SOW for government or industry
- TIM brokering of service and configuration control
- Technology programs
  - Architectures
  - Standards

System Operations

Corp. IM PROCESS

UTILITY OPERATIONS



- Facilitates Linkage of C3 Systems to Business Systems
- Competitive
- Quality end-user service
  - "One-stop" shopping
- Continual evaluation for management & improvement

CENTER SUPPORT (UTIL)

- Processing and network utility architecture
  - Full spectrum of shared services
- Industry benchmarking
- Information technology acquisition for infrastructure
- Capacity planning
  - Standards
- Configuration Control

Center for Information Management Program Strategy

- Improve Mission Practices
- Promote Efficiencies and Standardization
- Promote Information Technology Reuse
- Promote Open Systems Standards
- Reuse DoD Software
- Develop Data Administration Program
- Develop Common Information Systems for Each Functional Area

CENTER FOR INFORMATION MANAGEMENT
PROJECT SUMMARY
AS OF: 31-JUL-92

SAMPLE SAMPLE

PROGRAM PROJECT	SCHEDULE STATUS	TECHNICAL STATUS	FUNDING STATUS	RESOURCE STATUS	KEY DECISIONS STATUS	OVERALL STATUS
Fee-for-Service	⬇	⬆	⬇	⇩	⬇	⬇
Planning and Integration						
Info. Tech. Policy Development Support	⬆	⬆	⬆	⬆	⬆	⬆
FCC OPENNET	⬇	⬇	⬇	⬆	⬇	⬇
Technical Integration Program						
Technical Baseline	⬆	⬆	⬆	⬆	⬆	⬆
Configuration Management	⬆	⬆	⬆	⬆	⬆	⬆

⬆ – No Problems – Improving ^ – Marginal ⇧ – Major Problems – Improving

⇩ – No Problems – Declining N/A – Not Available ⬇ – Major Problems – Declining

(SA. .PLE)

CENTER FOR INFORMATION MANAGEMENT
(STATUS REPORT FOR JULY 1992)
FCC OPENNET - CIM OLYMPICS

CUSTOMER: Mr. Terry Hagle **CIM POC:** Mr. James M. Johnson

1. Project Description: DISA/CIM will assist, in an advisory capacity, the FCC OPENNET '92 vendor team in planning the strategy (requirements) for establishing a "CIM Olympics" subnet on the OPENNET network. DISA's Joint Interoperability Test Center (JITC) will approve the OPENNET test plan and verify the "CIM Olympics" subnet as "open" as defined in the test plan.

2. Project Objectives:

- Obtain Office of the Director of Defense Information Task/funds for JITC - 1 Jun 92.
- JITC review of CIM Implementation Plan - 31 Aug 92.
- JITC briefing to Information Technology Policy Board (ITPB) - Sep 92
- CACI setup FCC OPENNET Test Bed - 1 Oct 92.
- Move Test Bed to Convention Center - 5 Dec 92.

(SAMPLE)

- Perform 10 minute Flight On Arrival Test - 7 Dec 92.
- JITC perform open systems validation - 7 Dec 92.
- Executive Review - 7 Dec 92.
- Brief ITPB on CIM Olympics results.

3. **Red Flag/Issues:** Yes, see Issues.

4. **Project Changes:** None.

5. **Accomplishments:** None.

Planning and Integration
FCC OPENNET
As Of: 31-JUL-92

SAMPLE

SAMPLE

Tasks	1991 OCT	NOV	DEC	1992 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
Planning, Implementation Plan Review, Assmt Plan Development Issue: Resolution of CIM Olympic												

Planned Dates

Actual Dates

Progress to Date

Milestone

Slippage

Totals: $ in Thousands
Planned Expend. for Task:
Expend. Planned to Date:
Expended to Date:
Planned Monthly Expend:
Monthly Expended:

SAMPLE

CENTER FOR INFORMATION MANAGEMENT
FCC OPENNET
AS OF: 31-JUL-92

SAMPLE

ISSUE STATUS DETAIL

CIM Olympics Subnetwork Validation
SCHEDULE – Schedule Slip
Dependent on JITC funding ($173K) from Terry Hagle

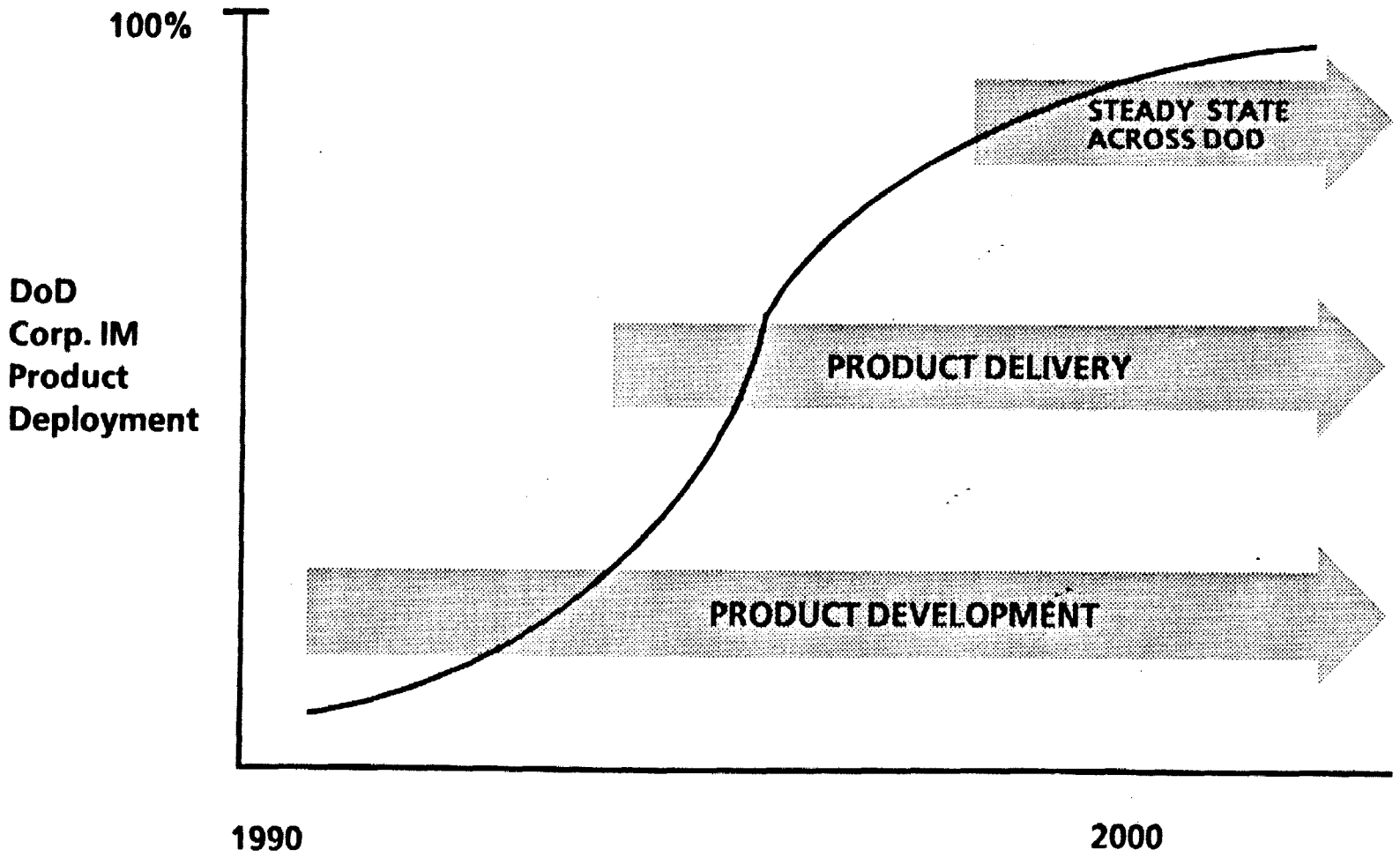
Planning, Implementation Plan Review, Assmt Plan Development
KEY DECISION – Resolution of CIM Olympics Objectives
Must be Resolved Between CACI and DDI

– Marginal

– Major Problems – Improving

– Major Problems – Declining

The Center's Plan for Corp. IM Support



PROGRAM PHASES

PHASE I - FY 92-94

- Full support to business functional area
- Develop common methods and tools
- Centralize data administration/data standardization
- Provide common reuse repositories for DoD functional domains
- Provide systems and software engineering support
- Export CIM methods, tools, architecture & standards to C3I arena
- Begin Transition to Fee for Service for Information Technology Resources

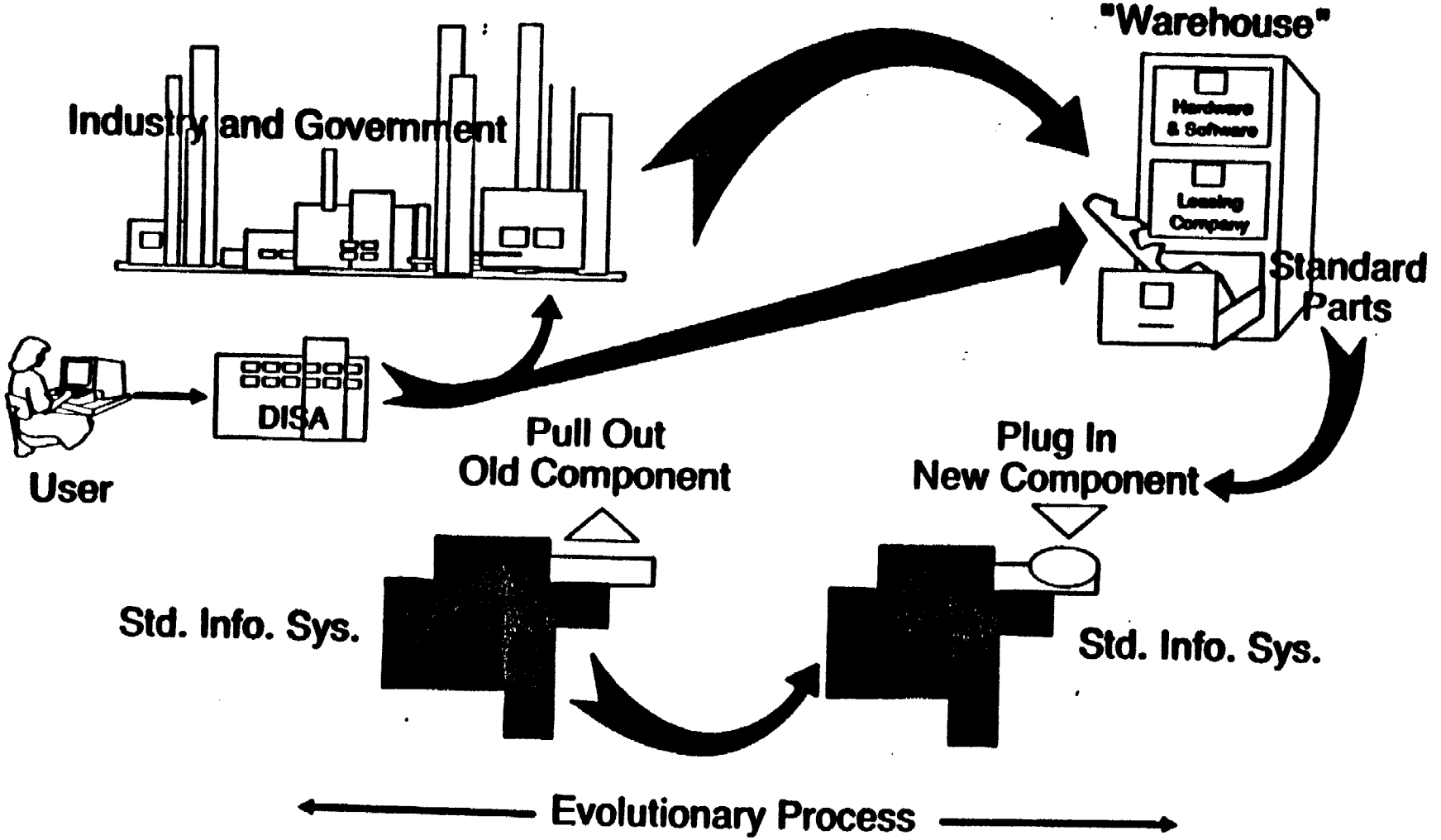
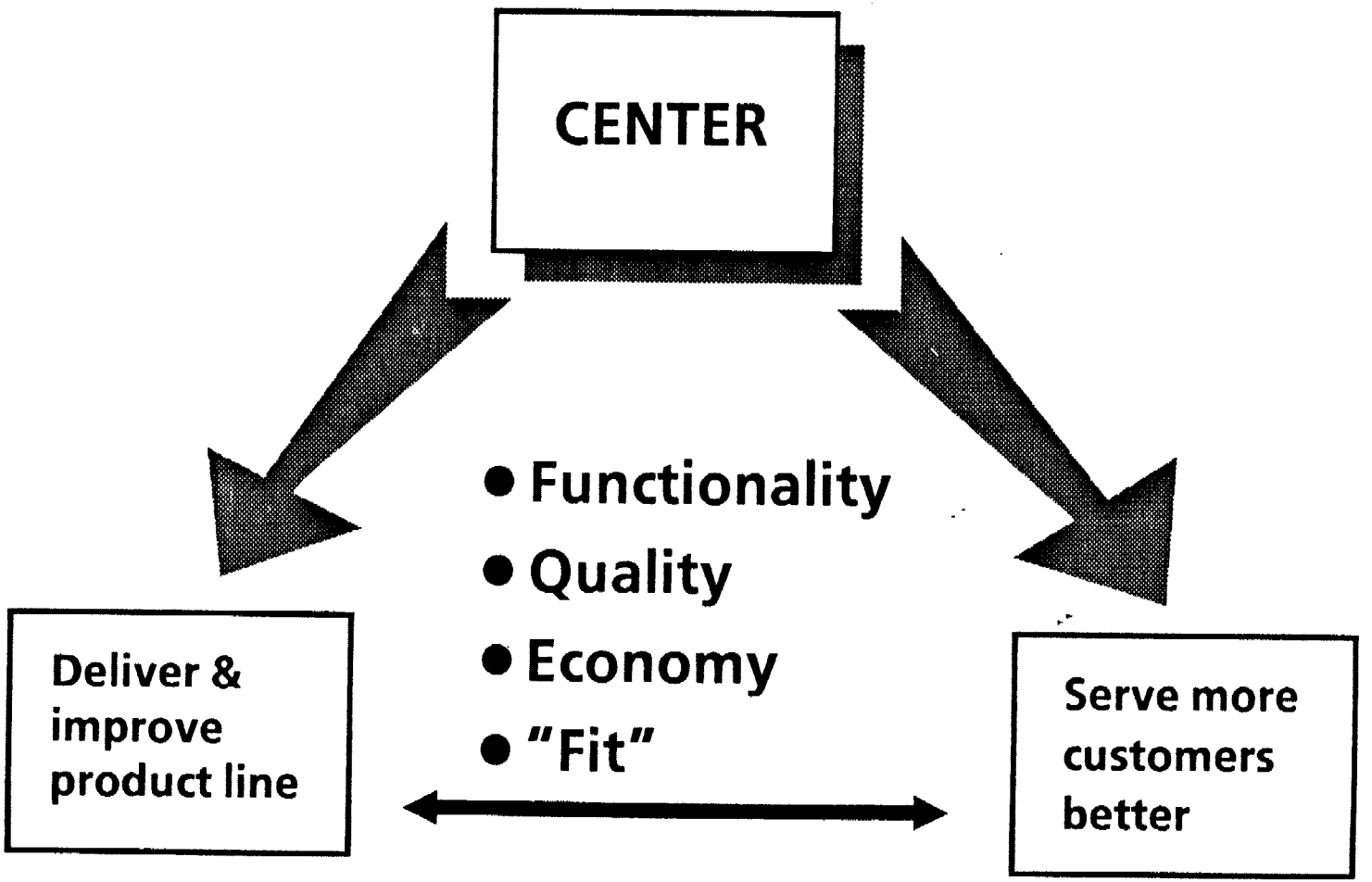
PHASE II - FY 94-96

- Business information technology capabilities mature, increase emphasis on applying capability to C3 area
- Business process improvement methods applied to C2 on a wide-spread basis
- Expand services on a fee-for-service basis
- Development of processing infrastructure
- Acquisition management for DoD software & hardware

PHASE III - FY 96-98

- C3 information technology capability maturing
- Systems engineering in Intelligence information systems
- Expanded infrastructure
- Fee-for-Service implemented

Future Process



Goals of the Center